



LCD User's Guide

Changing Entertainment. Again.

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rca.com/television

Important Information

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

Caution: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

WARNING

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. The apparatus shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING

The TV is unstable until it is properly attached to the base or mounted to the wall. Please follow the base or wall mounting instructions provided in the User's Guide to ensure your safety.



This symbol indicates that this product contains mercury. Special disposal of this product for environmental reasons may be required under the laws applicable to your jurisdiction. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.

Refer to the identification/rating label located on the back panel of your product for its proper operating voltage.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Cable TV Installer: This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Important: This television is a table model and is designed to sit on a firm, flat, surface. Don't place the TV on soft carpeting or similar surface because the ventilation slots on the bottom of the unit will be blocked resulting in reduced lifetime from overheating. To assure adequate ventilation for this product, maintain a spacing of 4 inches from the top and sides of the TV receiver and 2 inches from the rear of the TV receiver and other surfaces.

Also, make sure the stand or base you use is of adequate size and strength to prevent the TV from being accidentally tipped over, pushed off, or pulled off. This could cause personal injury and/or damage the TV. Refer to the Important Safety Instructions on the next page.

Product Registration

Please fill out the product registration card (packed separately) and return it immediately. For US customers: Your RCA Consumer Electronics product may also be registered at www.rca.com/television. Registering this product allows us to contact you if needed.

Product Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. These numbers are located on the product.

Model No. _____ Serial No. _____ Purchase Date _____

Dealer/Address/Phone _____

Important Safety Instructions

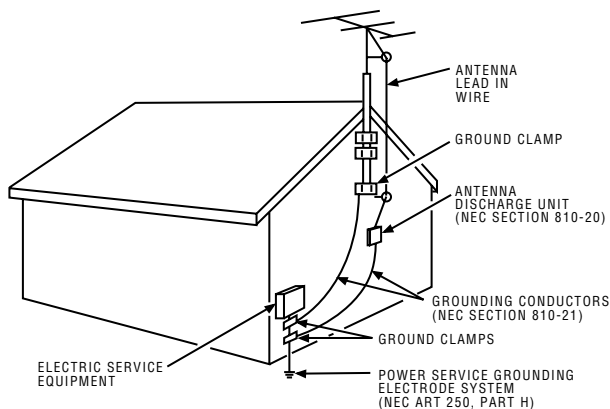
Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel.



Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See following example.



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Chapter 1: Connections and Setup

Things to Consider Before You Connect

Protect Against Power Surges

- Connect all devices before you plug any of their power cords into the wall outlet or power strip. NEVER plug your TV into an outlet that is controlled by a wall switch.
- Turn off the TV and/or device(s) before you connect or disconnect any cables.
- Make sure all antennas and cables are properly grounded. Refer to the Important Safety Instructions at the beginning of the User's Guide.

Protect Devices from Overheating

- Don't block ventilation holes on any of the devices. Arrange the devices so that air can circulate freely.
- Don't stack devices.
- If you place devices in a stand, make sure you allow adequate ventilation.
- If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it won't flow around other devices.

Position Cables Properly to Avoid Audio Interference

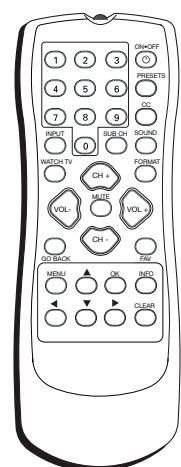
- Insert each cable firmly into the designated jack.
- If you place devices above the TV, route all cables down the side of the back of the TV instead of straight down the middle.
- If your antenna uses 300-ohm twin lead cables, do not coil the cables. Also, keep the twin lead cables away from audio/video cables.

Use Indirect Light

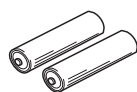
Don't place the TV where sunlight or room lighting will be directed toward the screen. Use soft or indirect lighting.

Check Supplied Parts

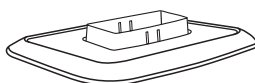
Check that the following parts were packed with your product.



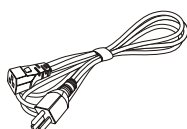
Remote control
Part # R130D1



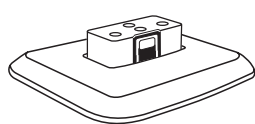
2 AA batteries



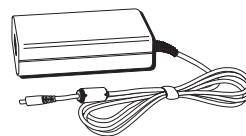
L19WD20 base



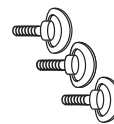
Power cord



L15D20 base

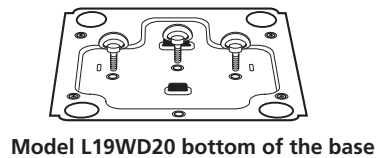
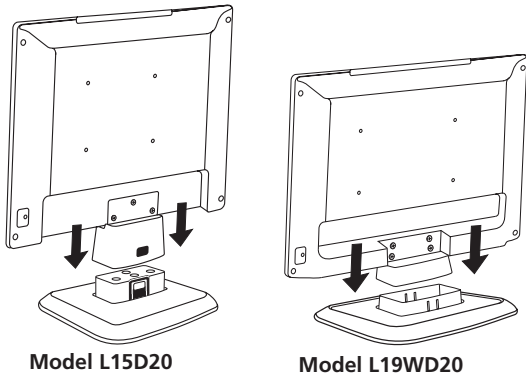


Power adapter (only
available for model L15D20)



3 screws to attach base
(only available for
model L19WD20)

Note: If you need to replace your remote, call 1-800-338-0376. A shipping and handling fee, and the appropriate sales tax, will be charged upon ordering. Have your Visa, MasterCard, or Discover Card ready.



Attaching Your TV's Base

Your TV comes shipped without the base attached so that you can choose to mount your TV either to its base or to a wall (wall mount sold separately). If you want to mount your TV to the wall, don't attach the base and instead follow the *Mounting Your TV to the Wall* instructions below.

1. Locate the base. For model L19WD20, also locate the three screws.
2. For model L15D20, pick up the TV and align it so that the lock tab on the base matches with the tab opening on the back of the TV.

For model L19WD20, the screw holes underneath the TV match with the screw holes inside the base.

Push down on the top of the TV until it clicks into the base.

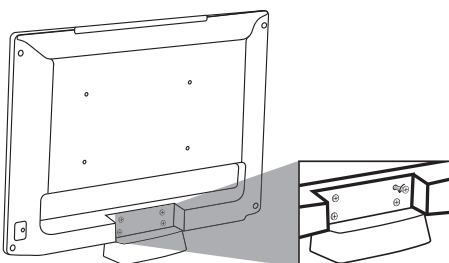
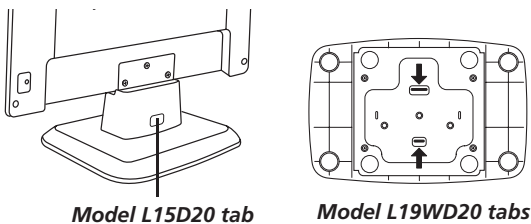
3. For model L19WD20, attach the three screws to the bottom of the base as the picture to the left shows.

Mounting Your TV to the Wall

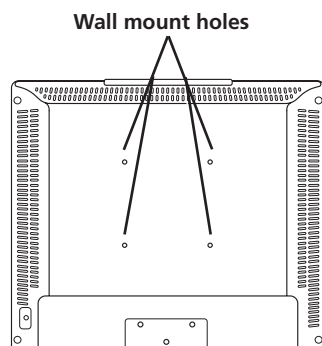
Caution: The wall mount must bear a minimum of five times the TV's net weight without causing damage.

To mount your TV to the wall you need to purchase a VESA wall mount. Purchase a VESA 100 x 100, M4 x 10mm (100 x 100 means the mounting measurements are 100mm horizontally and 100mm vertically; M4 x 10mm is the type of screw).

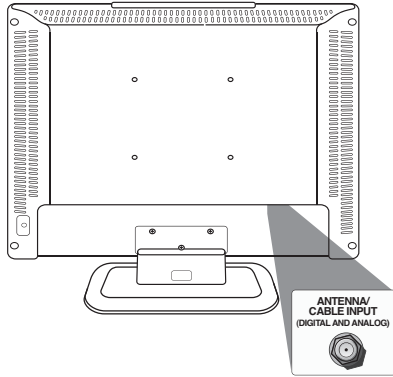
1. If the base is attached, you need to remove it before attaching the wall mount.
 - A. Place the TV facedown on a surface that is soft, yet strong enough to hold the TV.
 - B. For model L15D20, push in on the tab at the back of the base and remove the base from the TV.
For model L19WD20, remove the three screws from the bottom of the base. Then, squeeze the two tabs on the bottom of the base and remove the base from the TV.
 - C. Use a screwdriver to remove the screws from the holes as the picture indicates to the left. Model L15D20 has three screws; model L19WD20 has four screws.



Remove the screws that attach to the TV's base attachment.

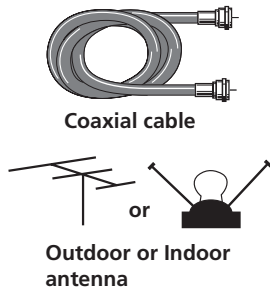


2. Make sure all cables are already connected to the TV.
3. Attach the wall mount to the TV using the four holes on the TV's back panel, as indicated in the picture to the left.
4. Follow the directions included with the wall mount to mount the TV to the wall.



Get the Picture

The first part of connecting your TV is to get the picture, also known as the signal. The back panel of your TV allows you to receive analog and/or digital channels by using the ANTENNA/CABLE INPUT.



Getting Channels

What You Need

- Antenna (“rabbit ears”) or outdoor antenna with coaxial cable
- OR**
- Coaxial cable with cable service
- A. Do you have an indoor or outdoor antenna? If you don't, go to step B. If you do, plug the antenna or coaxial cable from the wall outlet into the ANTENNA/CABLE INPUT to receive free off-air local digital and analog channels.
 - B. Do you have cable? If you don't, go to step C. If you do, plug the coaxial cable from the wall outlet into the ANTENNA/CABLE INPUT to receive your cable channels.
 - C. Do you have a set-top box? If you do, you need to call your cable company or satellite service provider. They may use special cables to allow you to view digital channels.

What You Need To Know

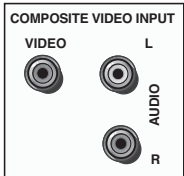
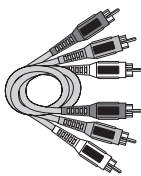
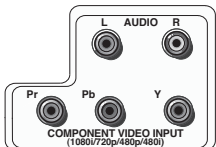
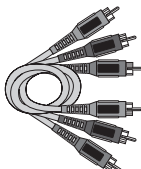
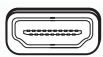
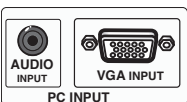
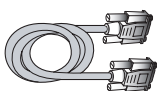
- Visit www.antennaweb.org to get help deciding what type of antenna to use to receive the local digital channels available to you. By entering where you live, this mapping program tells you what local analog and digital stations are available using a certain antenna.
- As you change channels, look at the top right corner of the screen to see what type of channel you're viewing. Digital channels display a *D* as part of the channel, such as *D Ch 29.1*, while analog channels display an *A* as part of the channel, such as *A Ch 9*. Go to page 16 for more channel information.

Choose Your Connection

Note for US customers: If you prefer, we can provide you with the name of an Authorized Service Representative who will visit your home for a fee to install your electronic entertainment system and to instruct you in its operation. For details about this service, call 1-888-206-3359.

For additional assistance while using your RCA product, please visit www.rca.com/customersupport.

There are several ways to connect your TV. Please use the following chart to determine which connection is best for you. Proceed to the appropriate page and connect your TV.

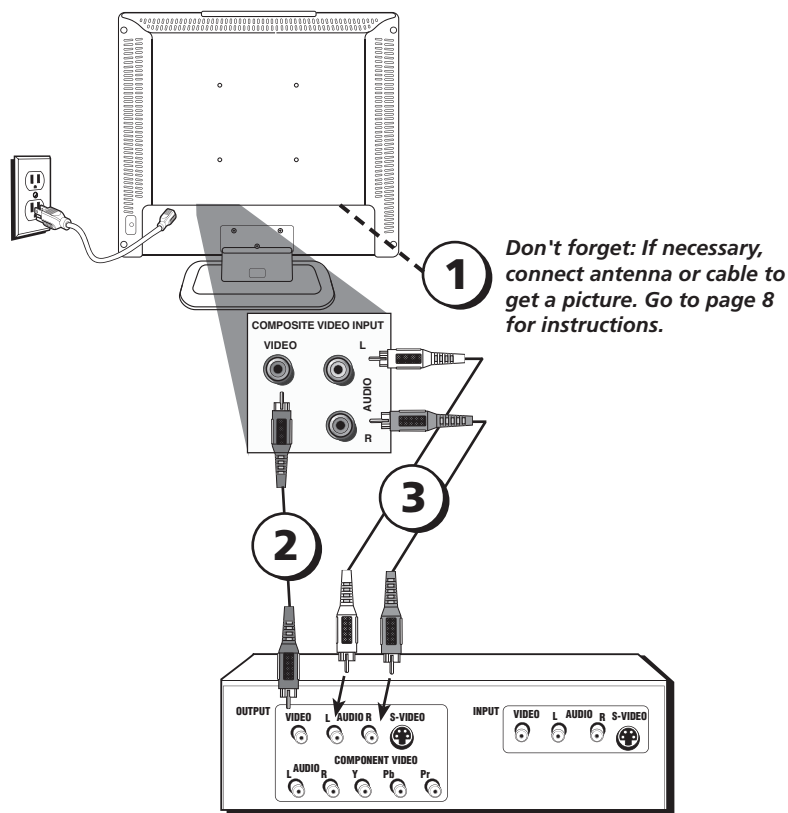
Jacks Used	Cables Needed	Go to...
 Video Audio L and R	 Audio/Video	page 10-11
 Y Pb Pr Audio L and R	 Component Video  Audio	page 10-11
 HDMI	 HDMI™	page 12
 VGA Audio	 VGA  Audio	page 13

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Connections and Setup

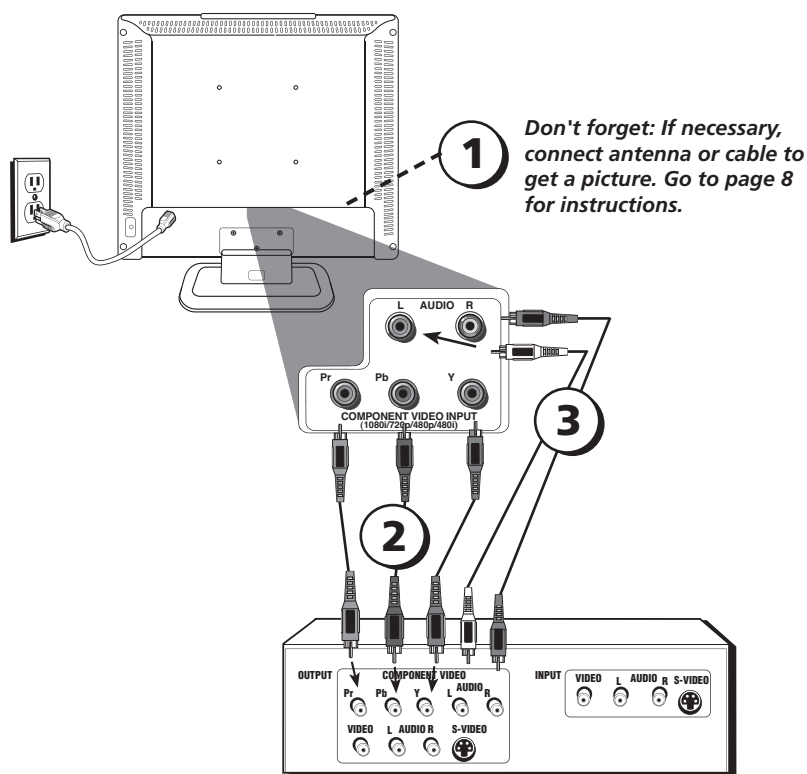
Video (Basic) Connection

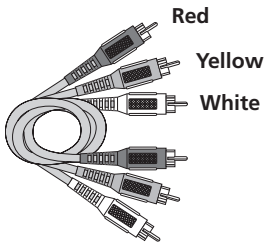
This is an example of a connection using the Video jack. Go to the top of page 11 for specific instructions.



Component Video (Advanced) Connection

This is an example of a connection using the Component Video jacks. Go to the middle of page 11 for specific instructions.





Composite cables are color coded- Yellow= video; Red= right audio; white= left audio

Connecting the Device with Video (Basic)

This connection allows you to connect a device that has a Video Out jack, for example, a DVD player.

Note: If the device you're connecting also has Component Video jacks and you have component video cables, we recommend you use the Component Video (Advanced) Connection instead. See the next set of instructions below.

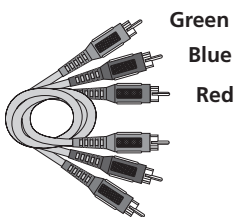
Using the example of a DVD player:

1. If necessary, connect your cable and/or off-air antenna as described on page 8.
2. Connect your yellow video cable.

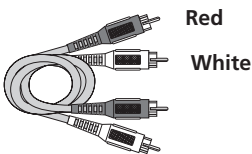
Connect a video cable to the VIDEO Input jack on the back of the TV and to the Video Output jack on the DVD player.

3. Connect your red and white audio cables.

Connect the audio (red and white) cables to the AUDIO R and L jacks on the back of the TV and to the Audio Output jacks on the DVD player.



Component Video cables (Y Pb Pr) are color coded- Green, Blue and Red



Audio cables are color coded- Red= right audio; white= left audio

Connecting the Device with Component Video (Advanced)

This connection allows you to connect a device that has Y Pb Pr jacks, for example, a DVD player.

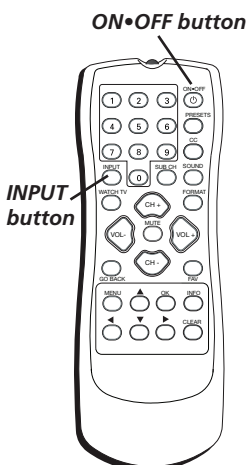
Using the example of a DVD player:

1. If necessary, connect your cable and/or off-air antenna as described on page 8.
2. Connect your Y Pb Pr component video cables.

Connect three video cables or special Y Pb Pr cables to the COMPONENT VIDEO INPUT Y Pb Pr jacks on the back of the TV and to the Y Pb Pr outputs on the DVD player.

3. Connect your red and white audio cables.

Connect the audio (red and white) cables to the COMPONENT VIDEO INPUT AUDIO R and L jacks on the back of the TV and to the Audio Output jacks on the DVD player.



Use these buttons to view the picture of the device you've connected to the TV.

Viewing the Picture from the Connected Device

1. Plug in the TV (see page 14 for details) and the device, if they aren't already plugged in.
2. Turn on the TV and the device you want to view, for example a DVD player.
3. Press the INPUT button on the remote control and press the up or down arrow button to highlight *Composite* (if connected to the VIDEO jack) or *Component* (if connected to the COMPONENT VIDEO jacks). Press OK to tune to the input. To go back to viewing TV channels, press the WATCH TV button.

Note: If the picture from the DVD player appears black and white and your device is connected to the VIDEO Input, you might be tuned to the wrong input. Make sure you press INPUT and select Composite.

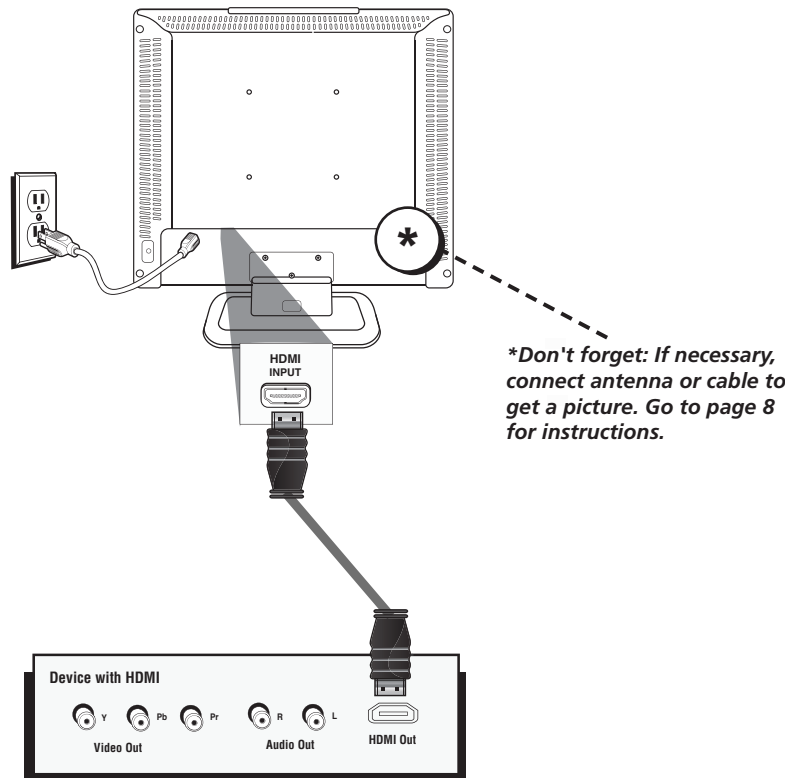
• If you're done connecting devices to your TV, go to page 15 to complete the Initial Setup.

• To continue connecting devices, go to the next page.

Connections and Setup

HDMI Connection

This is an example of a connection using the HDMI jack.



Connecting the Device

High-Definition Multimedia Interface (HDMI) technology is an uncompressed digital connection that carries both video and audio data by way of an integrated mini-plug cable.

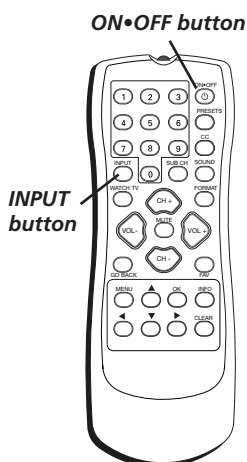


HDMI cable

Using the example of a set-top box:

- If your set-top box has an HDMI output jack, connect an HDMI cable.

Connect an HDMI cable to the HDMI INPUT on the back of the TV and to the HDMI Out jack on the back of the device.



Use these buttons to view the picture of the device you've connected to the TV.

Viewing the Picture from the Connected Device

The device in this connection is connected to the HDMI INPUT jack. To view this device:

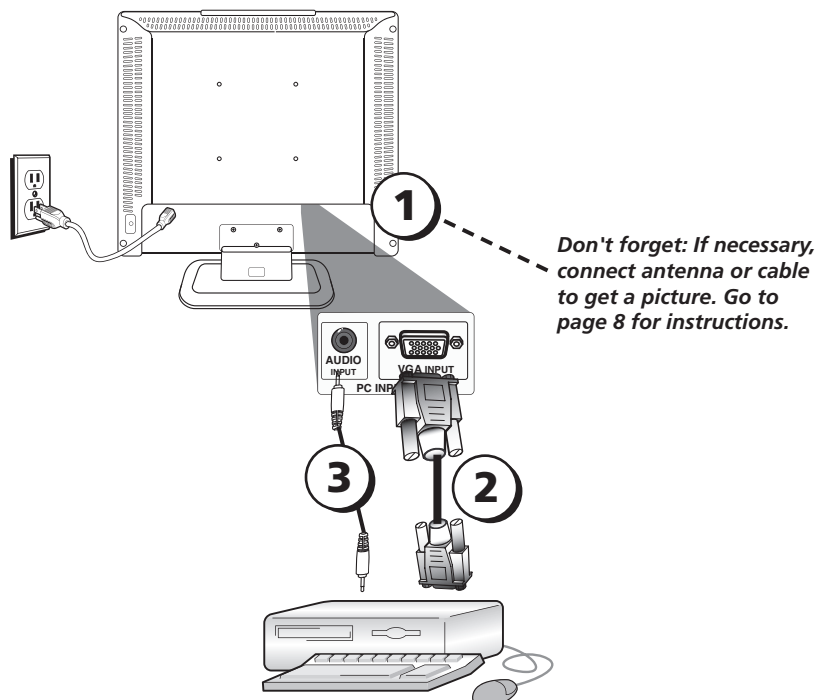
1. Plug in the TV (see page 14 for details) and the device, if they aren't already plugged in.
2. Turn on the TV and the device you want to view, for example a set-top box.
3. Press the INPUT button on the remote control and press the up or down arrow button to highlight *HDMI* from the input list. Press OK to tune to the input. To go back to viewing TV channels, press the WATCH TV button.

• If you're done connecting devices to your TV, go to page 15 to complete the Initial Setup.

• If you experience HDMI problems, go to the HDMI Troubleshooting section on page 31.

VGA Connection

This is an example of a connection using the VGA jacks.



Connecting the Device

This connection allows you to connect to a personal computer.

1. If necessary, connect your cable and/or off-air antenna as described on page 8.

2. Connect your monitor cable.

Connect one end of a 15-pin monitor cable to the VGA INPUT jack on the TV and the other end to the PC's video output jack. Note, if your PC's video output isn't 15-pin, you'll need an adapter that can connect to a 15-pin monitor cable.

3. Connect your audio cable.

Connect a 3.5 mm stereo mini pin cable (sometimes referred to as 1/8" stereo mini pin) to the VGA AUDIO INPUT jack on the back of the TV and the other end to the Audio Output jack on the PC.

Notes: The maximum panel resolution is 1366 x 768 for your TV. Be sure to set your PC to the correct monitor output setting.

The TV allows you to listen to the sound from another input while the PC is connected. Go to page 26 for more information.

Viewing the PC

1. Plug in the TV (see page 14 for details) and the PC, if they aren't already plugged in.
2. Turn on the TV and the PC.
3. Press the INPUT button on the remote control and press the up or down arrow button to highlight VGA from the input list. Press OK to tune to the input. To go back to viewing TV channels, press the WATCH TV button.

Connections and Setup

Plug in the TV

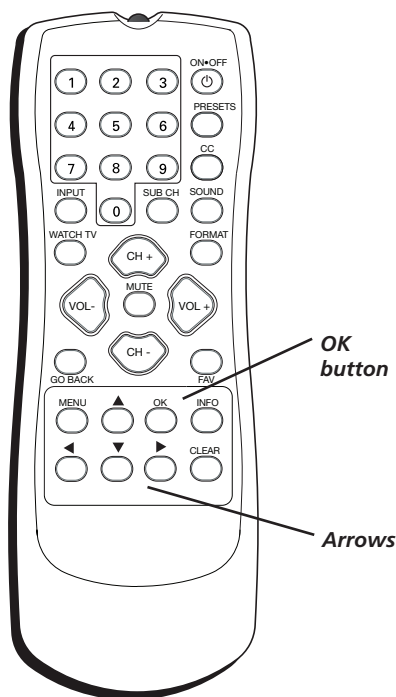
Plug the end of the power cord into the back of the TV. For model L15W20, plug the power cord into the power adapter, then plug the power adapter into the TV. Plug the other end of the power cord into a grounded wall outlet. Insert the plug completely into the outlet. Do not plug into an outlet controlled by a light switch.

Put Batteries in the Remote

- Remove the battery compartment cover from the back of the remote by pushing the tab and lifting off the cover.
- Insert two fresh batteries. Make sure the polarities (+ and -) are aligned correctly.
- Replace the cover.

Turn on the TV

Turn on your TV by pressing the Power button on the top panel of the TV or ON•OFF on the remote control.



How to Use the Remote Control to Complete the Initial Setup

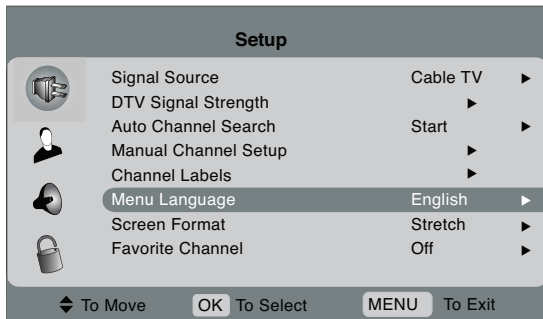
The technical term is “Navigation” – how you move through the on-screen menus. The theory is the same throughout the menu screens: highlight your choice and select it.

With the Setup menu displayed, press the right arrow button to access the Setup menu choices. Press the up or down arrow button to move up or down within the menu. Items with an arrow (▶) means there are more items to choose from or a sub-menu available. Press the right arrow or OK to display these.

Note: Highlighted means that the menu item stands out from other menu items on the list (appears darker, brighter, or a different color).

Complete the Initial Setup

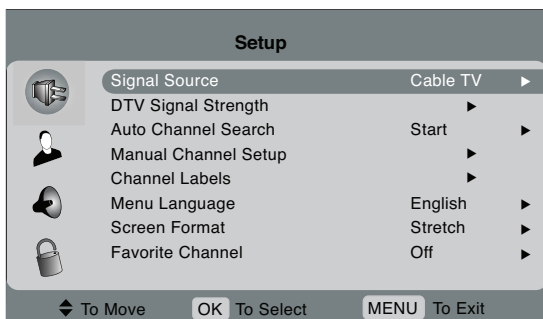
Customizing items in the *Setup* menu allows your TV to perform correctly. Make sure you've connected the TV to cable or an off-air signal before you continue.



Set the Menu Language

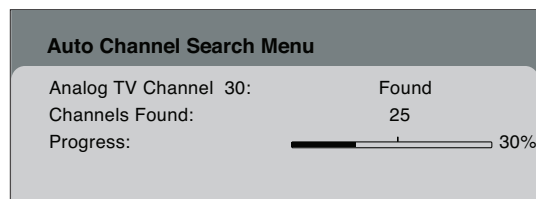
If English is your preferred language, skip this step and go to *Set the Signal Source*.

To choose another language, press the MENU button then press the right arrow button to enter the *Setup* menu. Press the down arrow to highlight *Menu Language*, then press the right arrow to choose a language. Continue to *Set the Signal Source*.



Set the Signal Source

From the *Setup* menu, press the up or down arrow button to highlight *Signal Source*. If you connected Cable to your ANTENNA/CABLE INPUT, the option is chosen for you and you can press the down arrow button to highlight *Auto Channel Search*. To choose *Air (Antenna)*, press the right arrow button and then press the down arrow button to highlight *Auto Channel Search*.



If you have ANALOG and DIGITAL channels, the TV runs 2 separate channel searches.

Complete the Channel Search

Even though the initial channel search can take time, you must complete it in order for your TV to display channels and programming. With *Auto Channel Search* highlighted, press OK to begin the channel search. The menu shows the TV is running a channel search. The TV tunes to a program once the search is complete.

Some channels might have been found during the channel search that are unavailable to view and you might want to get rid of these so they don't appear as you change channels. To do this, highlight *Manual Channel Setup* from the Setup menu. Note that removing channels from your channel list may be time consuming, so you might want to do it later. Go to page 24 for details on editing your channel list.

What To Expect

Watching TV

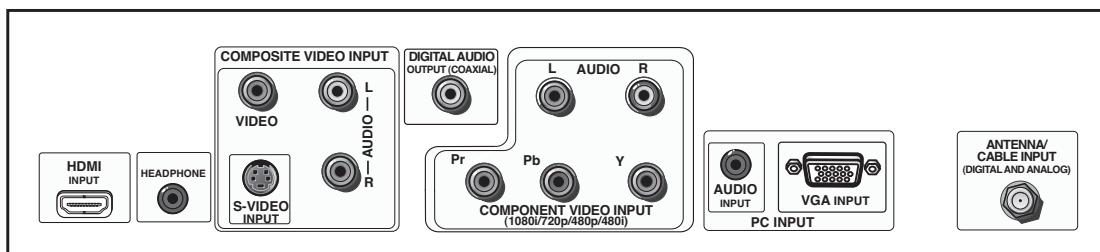
- Your TV allows you to change the format of the picture you're viewing by pressing the **FORMAT** button on your remote or accessing the *Screen Format* option in the Setup menu. The format changes as you press the **FORMAT** button and the format type is displayed at the top of the screen. Depending on the type of signal you're viewing and your TV's model, a different format might not be available.
- Analog video is sent in a 4/3 format. Most digital video is sent in a 16/9 format, but sometimes is sent in 4/3. It depends on how the station or device connected to your TV is formatting the video. If there are bars on-screen, press the **FORMAT** button to try a different format that may eliminate the bars.

Changing Channels

- If you have both analog and digital channels, these are put into the same channel list. As you change channels, look at the top right corner of the screen to see what type of channel you're viewing. Digital channels display a *D* as part of the channel, such as *D Ch 29.1*, while analog channels display an *A* as part of the channel, such as *A Ch 9*.
- Digital channels can have both primary channels (like the analog channel number) and subchannels. If 6 is the primary channel and 1 is the subchannel, for example, the channel looks like *6.1* on screen. To tune to a digital channel with a subchannel, such as 6.1, enter the primary channel number (6), then press the **SUB CH** button. Enter the subchannel number (1) and press **OK**.
- Depending upon the type of signal you have connected to your HDTV, you might notice that the channels change slower than you're used to. This is perfectly normal. Digital channels sometimes take longer to tune.

Explanation of Jacks (in alphabetical order)

This section describes the jacks on the back panel of your TV. There are several ways to connect devices.



ANTENNA/CABLE INPUT Lets you connect a coaxial cable to receive the signal from the antenna, cable, or cable box.

COMPONENT VIDEO INPUT Lets you connect a device that has component video jacks, such as a DVD player.

- **COMPONENT L AUDIO** Provides left audio connection when using COMPONENT VIDEO INPUT. The left audio connector is usually white.
- **COMPONENT R AUDIO** Provides right audio connection when using the COMPONENT VIDEO INPUT. The right audio connector is usually red.
- **COMPONENT VIDEO Y Pb Pr** Provides optimum picture quality because the video is separated into three signals. Use three video-grade or component video cables for the connection. When using Y Pb Pr, make sure you connect left and right audio cables to the COMPONENT L and R AUDIO jacks.

COMPOSITE VIDEO INPUT Lets you connect a device that has composite video jacks, such as a video game console, VCR, or DVD player.

- **AUDIO L and R** Receives audio from another device such as a camcorder, video game console, VCR, or DVD player. Use when connecting to the VIDEO or S-VIDEO Input.
- **S-VIDEO** Allows you to connect an S-Video cable from another device. Make sure you also connect audio cables from the device to the TV.
- **VIDEO** Receives video from another device such as a camcorder, video game console, VCR, or DVD player.

Note: Do not connect an S-Video and a regular video cable at the same time.

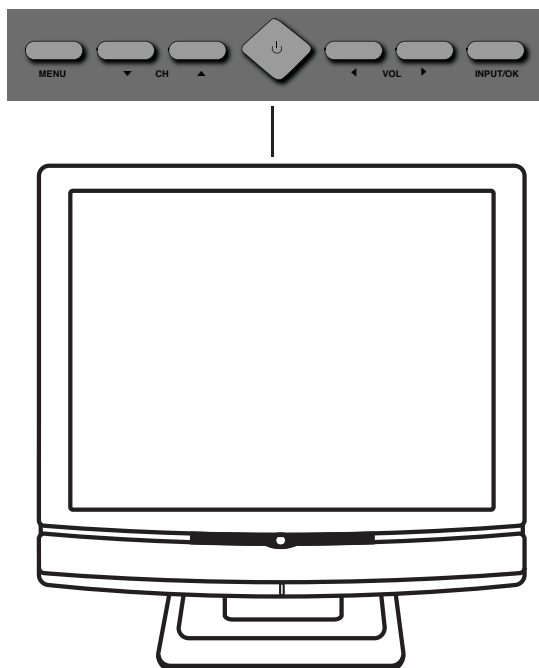
DIGITAL AUDIO OUTPUT (COAXIAL) Use this jack to connect an audio receiver to the TV for enhanced sound quality. Make sure you set the Audio output correctly in the *Advanced Audio Menu*. Go to page 26 for more information.

HDMI INPUT (High-Definition Multimedia Interface) Provides an uncompressed digital connection that carries both video and audio data by way of an integrated mini-plug cable. Lets you connect a device, such as a digital cable box, with an HDMI output.

HEADPHONE Allows you to connect headphones to listen to the sound coming from the TV. The TV speakers turn off when you plug in headphones.

VGA AUDIO INPUT (Stereo mini jack) Use to obtain sound when a device is connected to the VGA jack. Use a 3.5 mm stereo mini pin cable (sometimes referred to as 1/8" stereo mini pin) to connect a device to your TV. Go to page 13 for more information.

VGA INPUT Connect your computer, or other device with a VGA output, to this jack using a 15 pin D-sub cable.



Buttons On Your TV

If you cannot locate your remote, you can use the buttons on the top of your TV to operate many of the TV's features.

MENU Displays the TV Main menu. If the main menu is displayed, exits the menu; if a sub menu is displayed, takes you back to the previous menu.

CH v Scans down through the channel list. In the TV menu system, acts like the down arrow button on the remote control and adjusts menu controls.

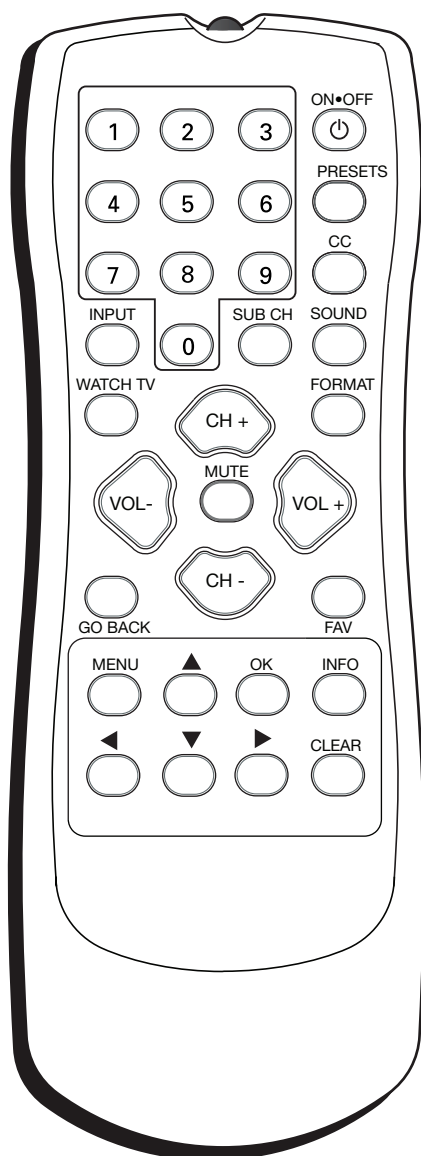
CH ^ Scans up through the channel list. In the TV menu system, acts like the up arrow button on the remote control and adjusts menu controls.

POWER Turns the TV on and off.

VOL < Decreases the volume. In the TV menu system, acts like the left arrow button on the remote control and adjusts menu controls.

VOL > Increases the volume. In the TV menu system, acts like the right arrow button on the remote control and adjusts menu controls.

INPUT/OK Displays the available video input channels- *Watch TV*, *Composite*, *S-Video*, *Component*, *VGA*, and *HDMI*. When in the menu system, displays sub-menus and selects the highlighted item.



Remote control part number
R130D1

Note: If you need to replace your remote, call 1-800-338-0376. A shipping and handling fee, and the appropriate sales tax, will be charged upon ordering. Have your Visa, MasterCard, or Discover Card ready.

The Buttons on the Remote Control

Arrows Used to move and highlight different items in the TV menu and to adjust the menu controls.

(0-9) Number Buttons Enter channel numbers. To enter a digital channel with a sub-channel, enter the main channel, then press the SUB CH button to enter the sub-channel and press OK.

CC Toggles through the CC settings: *CC Off*, *CC On*, and *CC On When Mute*.

CH + or CH - Scan up or down through the current channel list. Press once to change the channel up or down; press and hold to continue changing channels.

CLEAR Removes any menu or display from the screen and returns you to normal viewing.

FAV (Favorite) Press to browse the channels set in your *Favorite Channel* list. Go to page 25 for more information.

FORMAT Press to change the size of the picture on-screen.

GO BACK Returns you to the previous channel.

INFO Brings up the channel banner; press again to clear the screen.

INPUT Displays the available video input channels- *Watch TV*, *Composite*, *S-Video*, *Component*, *VGA*, and *HDMI*.

MENU Displays the TV Main menu. If the main menu is displayed, exits the menu; if a sub-menu is displayed, takes you back to the previous menu.

MUTE Reduces the TV's volume to its minimum level. Press again to restore the volume.

OK When in the menu system, displays sub-menus and make selections.

ON•OFF Turns the TV on and off.

PRESETS Toggles through the picture mode settings: *Natural*, *Vibrant*, *Gaming*, and *Personal*.

SOUND For an Analog channel, switches the sound mode options. For a Digital channel, switches the audio language. In VGA mode, switches to the audio input you selected from the *VGA Sound Source* option.

SUB CH When entering a digital channel that has a subchannel, press this button to enter a subchannel. Once the channel is entered, press the OK button to tune to the channel.

VOL - or VOL + Decreases or increases the TV's volume.

WATCH TV Switches back to watching a TV channel if you're tuned to an input.

Chapter 2: Using the TV's Features

Channel Banner

There are several indicators that might appear when you press the INFO button on the remote. This display is called the Channel Banner. The following list describes the items on the Channel Banner screen (left to right and top to bottom).



Analog Channel Banner



Digital Channel Banner

A Ch 70 LPJ/D Ch 700 BEV The channel and station you're currently viewing are displayed. An *A* displayed means it's an analog channel; a *D* displayed means it's a digital channel. Digital channels may also display an *HD* (High Definition), *SD* (Standard Definition), or *DT* (Digital Television) at the end of the station.

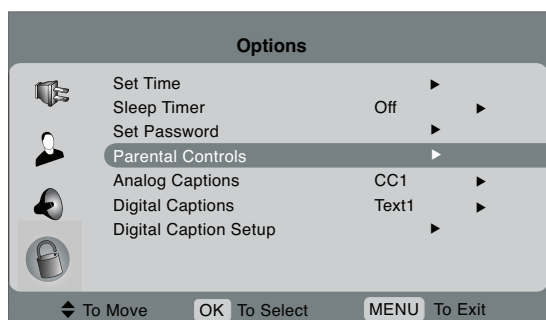
12:15 PM Current time that you set under the *Set Time* option in the Options menu.

Program name The program name appears, if available.

480i/1080i Current resolution is displayed.

TV-PG The program rating appears, if available.

Stereo Current audio the channel is broadcasting.



Parental Controls and V-Chip

The choices in the *USA Parental Controls* and *Canada Parental Controls* menus involve software inside your TV (referred to as V-Chip) which allows you to block TV programs and movies. TV programs can be blocked by age-based ratings, such as TV-MA, which is explained on page 22. If available, TV programs can also be blocked by content, such as adult language (L). This is explained on page 22. Movies can only be blocked by age-based ratings. This is explained on page 23.

Once you block programs, you can unblock programs by entering a password.

By default, the software inside your TV is turned off or unlocked. For instructions to lock V-Chip, go to the next page.

Note: Parental control settings are not available for HDMI or COMPONENT inputs.



How V-Chip Works for USA and Canada

V-Chip reads the program's age-based rating (TV-MA, TV-14, etc.) and content themes [(Violence (V), Adult Language (L), etc.)]. If you have blocked the rating and/or content themes that the program contains, you will receive the message *This program is blocked. Press MENU key to enter password.* Go to page 32 for the US and Canada ratings explanations.

Broadcasters are not required to provide content themes, so programs received with no content themes will only be blocked if you block their age-based rating. You can also block out programs that have been given a rating of *None* for TV Ratings, *N/A* or *N/R* for Movies, or *E* (Exempt) for Canadian ratings. Go to page 23 for unrated explanation.

Lock/Unlock Parental Controls

The default password for Parental Controls is "0000". You probably want to change the password to something less obvious, yet easy for you to remember. To change the password, access the *Options* menu (lock icon) and press the right arrow to enter the menu. Press the up or down arrow button to highlight *Set Password* and press OK. Press 0, 0, 0, and 0 as the old password and then enter the new password you want to use.

If you forget your password, select *Set Password* from the *Options* menu and press OK. Press 3, 4, 4, and then 8. Then enter a new password you want to use.

The V-Chip Rating Screen

The following is an example of where items are located within the Rating Limit screen.

Rating Status Field

Lets you select whether the status of the age-based rating limit to the left is locked (🔒) or unlocked (🔓).

Rating Field

Lets the age-based ratings of Movies and TV programs.

Content Themes

Lets the content themes of TV programs you can block or view. See next page for explanation.

Content Status Fields

Lets you select whether the status of the content theme is currently locked (🔒) or unlocked (🔓).

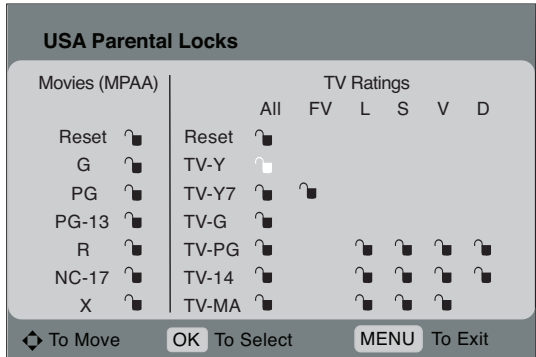
USA Parental Locks

Movies (MPAA)	TV Ratings
Reset 🔓	All 🔓
G 🔓	FV 🔓
PG 🔓	L 🔓
PG-13 🔓	S 🔓
R 🔓	V 🔓
NC-17 🔓	D 🔓
X 🔓	

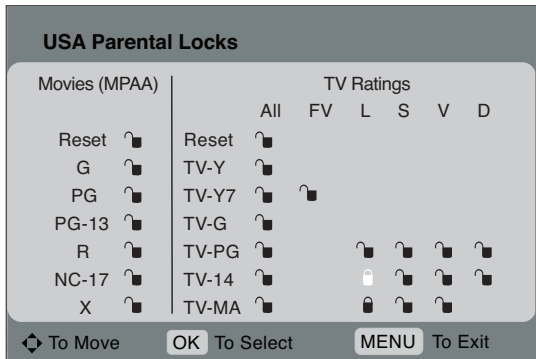
➡ To Move OK To Select MENU To Exit

Using the TV's Features

Hierarchy of Age-Based Ratings	
TV-MA	Mature Audience Only
TV-14	Parents Strongly Cautioned
TV-PG	Parental Guidance Suggested
TV-G	General Audience
TV-Y7	Directed to Children 7 years and older
TV-Y	All Children



Content Themes	
D	Sexually explicit dialogue
L	Adult language
S	Sexual situations
V	Violence
FV	Fantasy Violence



USA V-Chip TV Ratings

Blocking Age-Based Ratings

You can automatically block all program ratings above a specified age-based rating level.

1. Choose *Options* (lock icon) from the main menu, then highlight *Parental Controls*. Enter your password.
2. Highlight and select *USA Parental Locks*.
3. Press the left or right arrow button to highlight a TV Rating. Press the up or down arrow button to scroll to the rating corresponding with the lowest rating you do not want the child to watch. In the example to the left, highlight TV-Y.
4. Press the OK button to toggle between locked and unlocked. The status for the rating and all higher ratings automatically lock.

To view age-based ratings after you've locked them, follow the same steps as above to unlock.

Blocking Specific Content Themes

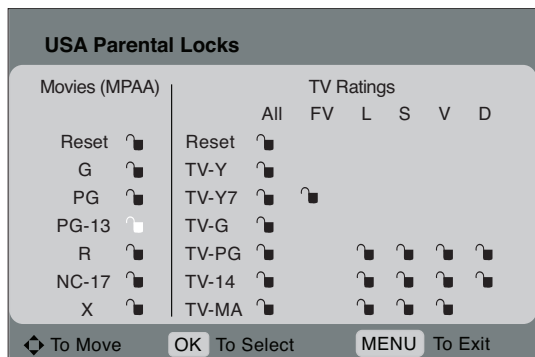
You can block programs based on their content. (Content is represented by the *FV*, *L*, *S*, *V* and *D* on your screen.) When you block a content theme for a particular rating, you automatically block that content theme for higher rated programs as well.

To block program content:

1. Determine the content theme you want to block.
2. Press the down arrow button to scroll to the rating whose content theme you want to change.
3. Press the right arrow button to move the highlight to a particular content theme. In the example to the left, highlight the language (*L*) corresponding with TV-14.
4. Press the OK button to change its status to lock. The language for TV-MA is blocked as well.

Notes: Broadcasters are not required to provide content themes or age-based ratings.

To view a content theme after it's been locked, follow the same steps as above to unlock. Note that if you unlock the language corresponding with TV-14, the language for TV-MA doesn't unlock. You have to unlock the content theme status for each rating separately.



V-Chip Movie Rating Limit

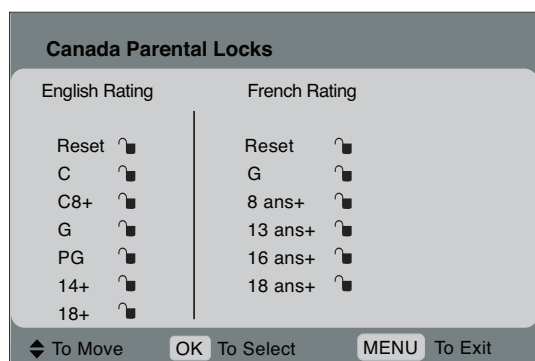
Set movie rating limits by blocking movies rated above a specified level.

To access Movie Ratings:

1. Press MENU on the remote control.
2. Choose Options (lock icon) from the main menu, then highlight *Parental Controls*. Enter your password.
3. Highlight and select *USA Parental Locks*.
4. The Movie Ratings appear on the left side of the menu. Press the up or down arrow button to highlight a rating.

Blocking Movie Ratings

Once you are in the *Movie ratings* menu, follow the same steps described for blocking USA age-based ratings.

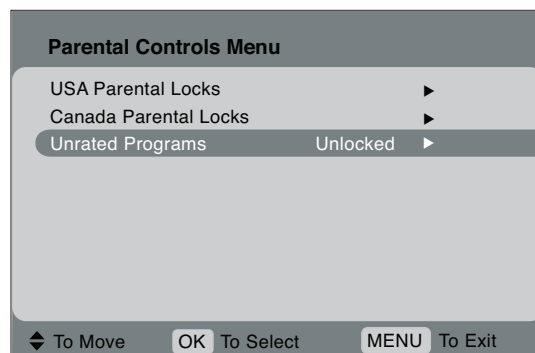


Blocking Canadian V-Chip Ratings

If you receive Canadian programs you can block Canadian English and French V-Chip by ratings only. When you block a particular rating, you automatically block the higher rated programs as well.

To block Canadian English and French program ratings:

1. Select *Canada Parental Locks* from the *Parental Controls* menu.
2. Determine the rating you want to block from *English* on the left or *French* on the right.
3. Press the down arrow button to scroll to the rating you want to change.
4. Press the OK button to change its status to block (all ratings above the one you selected change to block).



Blocking Unrated/Exempt Programs

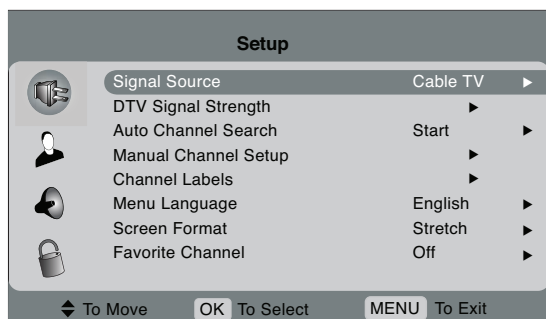
Unrated TV programs may include news, sports, political, religious, local and weather programs, emergency bulletins, public announcements, and programs without ratings. Programs that have no rating or have been given a rating of *None* for TV Ratings, *N/A* or *N/R* for Movies, or *E* (Exempt) for Canadian ratings can be blocked using the *Unrated Programs* option.

Future Rating Region

You might notice an option in the Parental Controls menu that wasn't there before. This is because broadcasters have the capability to add a new rating system for TV programs. These ratings let you define additional parameters for parental controls. This option and its name are dependent on the content acquired from the broadcaster.

Note: These ratings are available only if the broadcaster is sending them.

Chapter 3: Using the TV's Menu System



Using the Menu System

This section explores the menus of your TV. Each menu is outlined and detailed to help you get the most from your TV. The *Parental Controls* menu is discussed in the Features chapter.

To access the menu system:

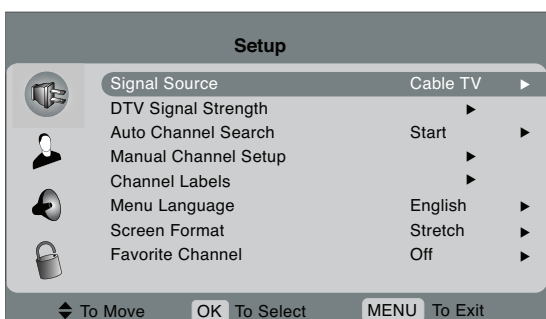
1. Press the MENU button.
2. Use the up and down arrow buttons to highlight an icon on the left and press the right arrow button to enter the menu. The name of the menu is displayed at the top of the menu screen.
3. Press the up and down arrow buttons to move to a different option within the menu. If necessary, press the OK button or right arrow to display the choices of the option you've highlighted or toggle through available options. If available, use the information at the bottom of the screen for help.
4. To adjust controls, such as picture setting options, highlight the option and press OK. The option appears on the bottom of the screen so you can see the option change as you adjust it.
5. To return to the previous menu, press the MENU button.

Note: Options in the menus that are grayed-out and can't be highlighted are unavailable or in progress.

Descriptions of each menu are discussed in the order they appear.

There are two ways to exit a menu:

- Press the CLEAR button. The menus are cleared from the screen and you return to TV viewing.
- Press the MENU button repeatedly until the menus disappear.



Setup Menu

The Setup menu lets you configure the TV to fit its surroundings and your preferences. To access the *Setup* menu (plug icon), press MENU on the remote (the *Setup* icon is highlighted). Press the right arrow button or OK to enter the menu.

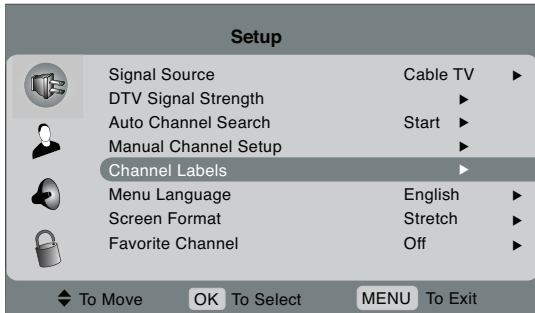
Signal Source If you connected cable to the ANTENNA/CABLE INPUT, select *Cable TV*. If you connected an antenna to the ANTENNA/CABLE INPUT, select *Air (Antenna)*.

DTV Signal Strength Displays the signal strength of the digital channel that the TV is currently tuned to.

Auto Channel Search Searches for channels the signal is receiving. Go to page 15 for more information.

Manual Channel Setup Displays the channel list, allowing you to add or delete channels. If a channel is *Hidden* and you want it viewable as you change channels, select *Viewable*. If a channel is *Viewable* and you don't want it to appear as you change channels, select *Hidden*.

Using the TV's Menu System

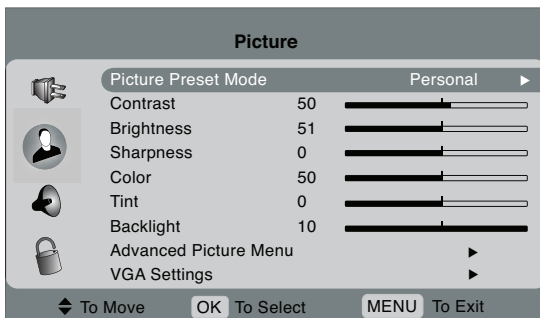


Channel Labels Allows you to add or change a seven character label to a channel, which is displayed on-screen when you tune to the channel. Press the up and down arrow button to scroll through the available characters. Continue to press the right arrow button to highlight the next space to add another character.

Menu Language Allows you to change the language of the menu system.

Screen Format Allows you to change the format of the screen. If there are bars on-screen try a different format, if available, that may eliminate the bars. Choose between *Normal*, *Zoom*, *Stretch* (only available for model L19WD20), and *Center*.

Favorite Channel The channel you're tuned to is saved as a favorite channel when you turn the setting *On*. You can have up to 10 favorite channels. Then use your FAV button on the remote to scroll through your favorite channels.



Picture Menu

The *Picture* menu contains menus and controls to configure how the picture looks. To access the Picture menu (person icon) press MENU on the remote, and then press the down arrow button to highlight the Picture icon. Press the right arrow button or OK to enter the menu. Picture options can be applied to each input- VIDEO, SVIDEO, COMPONENT, VGA, and HDMI.

Picture Preset Mode Displays a choice list that lets you select one of the preset picture settings: *Vibrant*, *Cinematic*, *Natural*, *Sports*, *Videogame*, *Video camera* or *Personal*. Choose the setting that is best for your viewing environment.

Contrast Adjusts the difference between the light and dark areas of the picture.

Brightness Adjusts the brightness of the picture.

Sharpness (not available in VGA mode) Adjusts the crispness of the edges in the picture.

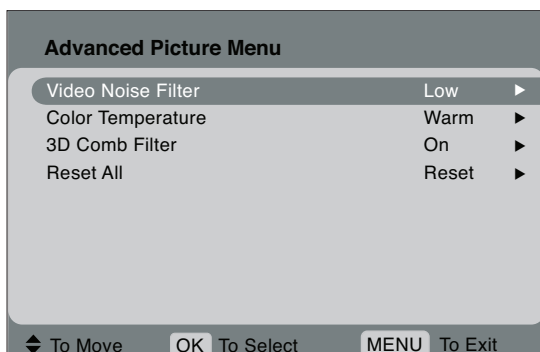
Color (not available in VGA mode) Adjusts the richness of the color.

Tint (not available in VGA mode) Adjusts the balance between red and green levels.

Backlight Adjusts the level of light, depending on your room setting.

Note: When you change any of these picture settings, the *Picture Preset Mode* changes to *Personal*.

Advanced Picture Menu



Video Noise Filter Reduces picture “static” or any type of interference. This feature is especially useful for providing a clearer picture in weak analog signal conditions. Choose between *Off* for no noise reduction; *Low* for a softer, smoother picture that retains picture sharpness and detail; *Medium* for a slightly softer picture than the *Low* setting; *High* for an even softer, smoother picture than the other settings (the picture detail is somewhat decreased).

Note: Video noise filter is available for the *COMPONENT VIDEO* input only if the signal is 480i.

Using the TV's Menu System

Color Temperature Adjusts to make the picture appear more red or blue. Choose *Warm* for more red, *Normal* for standard picture, and *Cool* for more blue.

3D Comb Filter If you have a device connected to the VIDEO INPUT, helps to correct detail and color loss. Turn the option *On* for improved video.

Reset All Restores Advanced Picture Menu to the default settings.

VGA Settings (only available in VGA mode)

Horizontal Position Adjusts the picture's position left or right.

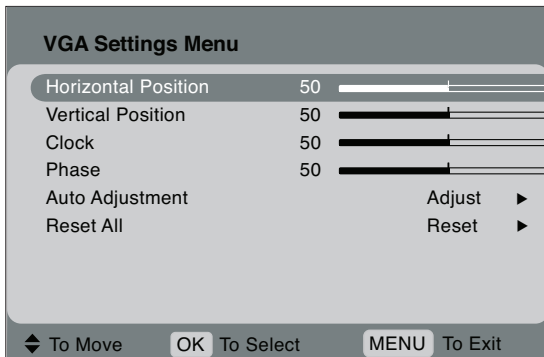
Vertical Position Adjusts the picture's position upward or downward.

Clock Adjusts the clock sync of the picture.

Phase Adjusts the picture if there is flicker of screen letters, color misalignment, or blurring.

Auto Adjustment Adjusts the position of the picture automatically. Try it if the picture on the VGA input doesn't look right.

Reset All Restores VGA Settings menu to the default settings.



Audio Menu

The Audio menu lets you adjust audio output. To access the Audio menu (speaker icon), press MENU on the remote, and then press the down arrow button to highlight the Audio icon. Press the right arrow button or OK to enter the menu. The following audio items can be adjusted:

Bass Increases or decreases the bass of the sound.

Treble Increases or decreases the treble of the sound.

Balance Adjusts how much audio is sent to the left and right speakers.

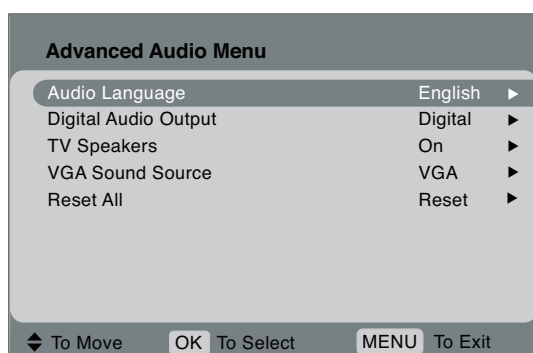
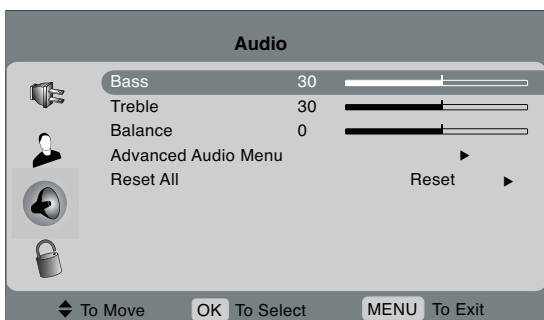
Advanced Audio Menu

Audio Language (only available on digital channels) Press the right arrow to choose from the audio languages available for the program you're watching. The language you choose becomes your preferred audio language for all channels on the digital tuner until you turn the TV off. If the language you choose here is not being broadcast with a program, then the TV plays the default audio for the program (usually English in the U.S.).

Digital Audio Output Lets you choose a setting for the DIGITAL AUDIO OUTPUT jack. Choose *Digital* to receive Dolby Digital sound if transmitted and you've connected a six-channel receiver to the TV's output jack. Choose for *PCM* if your audio receiver only handles PCM.

TV Speakers Turn on or off the internal speakers. If you have an audio amplifier device connected to the DIGITAL AUDIO OUTPUT jack on the back of the TV and you want to control the sound by the audio amplifier device instead, turn the option *Off*.

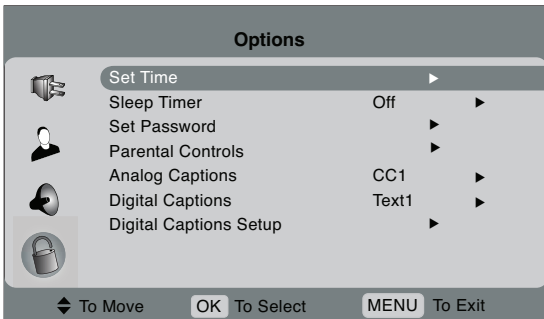
VGA Sound Source Allows you to listen to the audio from the VGA, COMPOSITE, or COMPONENT inputs while tuned to the VGA input. Make sure the device connected to the input is turned on and the audio you want to hear is playing.



Using the TV's Menu System

Reset All Restores the Advanced Audio Menu to the default settings.

Reset All Restores the Audio Menu to the default settings.



Options Menu

The Options menu lets you adjust additional options for the TV. To access the Options menu (lock icon), press MENU on the remote, and then press the down arrow to highlight the Options icon. Press the right arrow button or OK to enter the menu. The following options can be adjusted:

Set Time Lets you set the time zone and time.

Time Press the left or right arrow to set the time. The AM and PM setting changes when you get to 12 o'clock.

Note: If your TV loses power, you need to reset the time.

Sleep Timer Lets you set the TV to turn off after a given amount of time. Choose between *Off*, *30 min*, *60 min*, or *90 min*.

Set Password Set the password used to lock parental controls. Go to page 21 for more information.

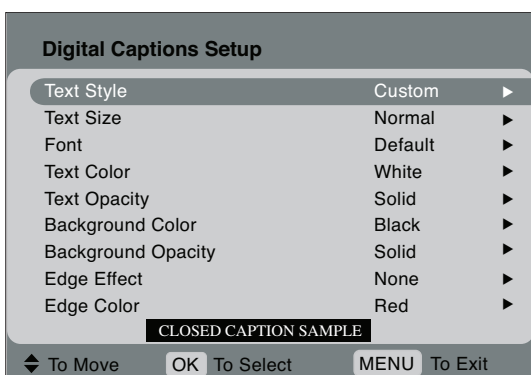
Parental Controls The Parental Controls menu was explained in Chapter 2. Go to page 20 for more information.

Analog Captions Many programs are encoded with closed-captioning information, which lets you display the audio portion of a program as text on the TV screen. If you are unsure of the differences among the modes, you may prefer to leave the closed captioned mode set to CC1, which displays complete text of the program in the primary language in your area.

Note that Closed captioning is not available on all channels at all times. Only specific programs encoded with closed-captioning information.

Digital Captions If available, lets you select a closed caption mode for digital channels. Use *Service1* if you are unsure what to use.

Digital Captions Setup Customize the digital captions. A sample of how the digital captions might look appears at the bottom of the screen. The options are:



Text Style If you want to customize the digital closed caption options, choose *Custom*. Choose *As Broadcast* to have the options set for you.

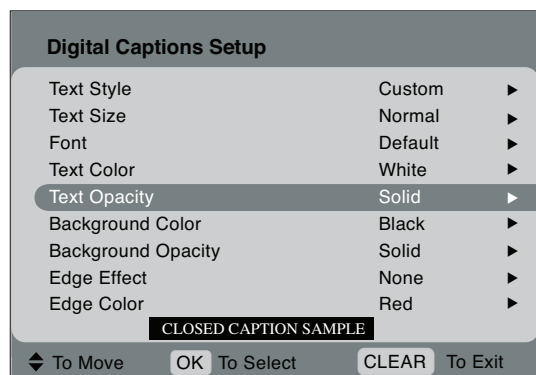
The following options are only available if you chose *Custom* as your Text Style:

Text Size Lets you set the size of the digital closed-caption text. You can choose *Small*, *Normal*, or *Large*.

Font Lets you select a character design for the digital closed-caption text. A font is a complete assortment of letters, numbers, punctuation marks, etc. of a given design. You can choose from a variety of fonts.

Text Color Lets you choose the color of the digital closed-caption text: *Red*, *Green*, *Blue*, *Yellow*, *Magenta*, *Cyan*, *Black*, or *White*.

Using the TV's Menu System



Text Opacity Lets you set the appearance of the digital closed-caption text: *Transparent*, *Translucent*, *Solid*, or *Flashing*.

Background Color Lets you choose the color of the area behind the digital closed-caption text: *Red*, *Green*, *Blue*, *Yellow*, *Magenta*, *Cyan*, *Black*, or *White*.

Background Opacity Lets you choose the opacity of the area behind the digital closed-caption text: *Transparent*, *Translucent*, *Solid*, or *Flashing*.

Edge Effect Lets you set the effect of the font's edge: *None*, *Raised*, *Depressed*, *Uniform*, *Left Shadow*, or *Right Shadow*.

Edge Color Lets you set the edge effect's color: *Red*, *Green*, *Blue*, *Yellow*, *Magenta*, *Cyan*, *Black*, or *White*.

Note: These captioning style options only have an effect on true digital closed captions.

Not all captioning on digital channels is digital captioning—it depends on what the broadcaster is sending. If the closed captioning for a program is not digital, the Digital CC style settings will not have an effect.

Frequently Asked Questions (FAQs)

How can I view High Definition (HD) video?

There are several ways you can view high definition video. If you have regular cable, your TV is able to receive some digital channels because it has a capability called QAM. QAM is a tuner that enables reception of unscrambled digital cable content. After you run a channel search, the digital channels begin at the end of the analog channel list. Check with your cable provider for information about content availability in your area.

You can connect an off-air antenna to the ANTENNA/CABLE INPUT to view free local digital channels. You might need to purchase an antenna. Go to page 6 for more information. Visit www.antennaweb.org to get help deciding what type of antenna to use to receive the local digital channels available to you. By entering where you live, this mapping program tells you what local digital stations are available using a certain antenna.

You can also use a set-top box to receive digital channels. Contact your cable company to purchase digital cable and have them connect the box for you to ensure you're viewing channels the best way.

How do I tell a digital channel from an analog channel?

Press the INFO button to display the channel banner. Digital channels display a *D* as part of the channel, such as *D Ch 29.1*, while analog channels display an *A* as part of the channel, such as *A Ch 9*.

Why are there bars on my screen and can I get rid of them?

For model L15D20, digital video that is sent in 16/9 format can't properly fit into your 4/3 screen. Most digital video is sent in a 16/9 format, but sometimes is sent in 4/3, which would affect model L19WD20. The station or device connected to your TV controls how the video is formatted. Press the FORMAT button to try a different format that may eliminate the bars. The format changes as you press the FORMAT button and the format type is displayed at the top of the screen.

Why does channel search find a lot of channels, but when I try to tune to them there's nothing there?

Some channels are enabled by the cable company that don't carry programming, such as video-on-demand. When channels are unavailable, your TV's screen is blank or appears like snow. You probably want to remove these so they no longer appear in your channel list. In the *Manual Channel Setup* menu, choose *Hidden*. Go to page 24 for more information.

Why does the first channel search take a long time?

The TV is looking for all available analog and digital channels in the channel list. If you have digital channels, the TV is also searching for each sub-channel of that digital channel.

Troubleshooting

Most problems you encounter with your TV can be corrected by consulting the following troubleshooting list.

TV Problems

TV won't turn on

- Make sure the TV is plugged in.
- Check the wall receptacle (or extension cord) to make sure it is “live” by plugging in something else.

No picture, no sound but TV is on

- You might be tuned to an input with no device connected to it to view. If you're trying to view a connected device, press INPUT and choose the option that matches the input of the device you connected.
- Maybe the *Signal Source* option is set incorrectly. Go to page 15 for detailed instructions.
- The channel might be blank — change channels.
- If you're watching your VCR and it's connected with coaxial cable to the ANTENNA/CABLE INPUT jack, tune the TV to channel 3 or 4 (whichever channel is selected on the 3/4 switch on the back of your VCR). Also check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).

Sound okay, picture poor

- If you're getting a black and white picture from a device you've connected to your TV, you might have your video cables connected to the wrong jacks. A yellow Video cable connects to the yellow VIDEO input jack; three yellow video cables or bundled component video cables (red, blue, and green) connect to the COMPONENT INPUT jacks on the back of your TV.
- Check antenna connections. Make sure all of the cables are firmly connected to the jacks.
- Try adjusting sharpness function to improve weak signals. Go to page 25 for more instructions.

No sound, picture okay

- Maybe the sound is muted. Try pressing the volume up button to restore sound.
- If using S-Video or Y, PB, PR, remember to also connect the device's left and right audio output jacks to the TV's L and R Audio Input jacks.
- The sound settings may not be set correctly. Go to page 26 for more information.
- The internal speakers might be turned off. Go to page 26 for more information.

Blank screen

- If you're trying to watch something that's playing on a device connected to the TV (like a DVD), press INPUT and choose the option that matches the input where you connected the DVD.
- Press the WATCH TV button.
- Make sure the device connected to the TV is turned on.
- Try another channel.

Buttons don't work

- Unplug the TV for ten minutes and then plug it back in. Turn the TV on and try again.

TV turns off unexpectedly

- Sleep timer may have been activated. Go to page 27 for instructions.
- Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn on again. If this happens frequently, the voltage in your house may be abnormally high or low.
- Unplug. Wait ten minutes. Plug in again.

Can't select certain channel

- Channel may be blocked or not approved in the *Parental Controls* menu.
- If using a VCR, check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).
- Press the WATCH TV button and then try to change channels.

Noisy stereo reception

- May be a weak station. Press the *Sound* button and choose Mono.

Black box appears on the screen

- Closed-captioning might be on. Check *Analog* or *Digital Captions* in the *Options* menu. Go to page 27 for more instructions.

Problems with HDMI/DVI Connection

- Make sure the HDMI device is turned on and the cables are firmly connected. If problems still occur, turn off your device. Re-connect your device. Reset the power by unplugging the power cord and plugging it back in.
- If you are tuned to the HDMI input and you're receiving *No Signal* message on-screen, the HDMI device isn't responding. Contact the manufacturer of the HDMI device for further assistance.
- If you tune to the HDMI input and you see snow, the video goes in and out, or the video takes a long time to appear, your HDMI device is having trouble sending video information to the TV. Re-connect your device. Reset the power by unplugging the power cord and plugging it back in. If problems persist, try connecting the Y Pb Pr jacks instead if they are available or contact the manufacturer of the HDMI device for further assistance.
- If you have black bars on each side of your picture, the device you connected might have a switch or a menu option allowing you to change the picture quality output that will fix this. Choose either 720p or 1080i.
- 480i signals aren't supported by the HDMI input.

The Remote Control Doesn't Work

- Something might be between the remote and the remote light sensor on the front of the TV. Make sure there is a clear path.
- Maybe the remote isn't aimed directly at the TV.
- Maybe batteries in remote are weak, dead, or installed incorrectly. Put new batteries in the remote.

Problems with V-Chip/Parental Controls

I don't remember my password and I want to unlock the TV

- If you forget your password, select *Set Password* from the *Options* menu and press OK. Press 3, 4, 4, and then 8. Then enter a new password you want to use.

The V-Chip won't let me watch a program even though it's not rated as violent.

- Maybe the movie was given an NR (Not Rated) status. After you block movie ratings, you must set *NONE* to *View* separately in order to view movies with an NR rating.

What Else Can I Do?

If you've been through the Troubleshooting section and nothing has fixed your problem, try rebooting your TV. Note that after a reboot you may need to run your TV through the setup process again. To do a reboot, unplug the power cord from the wall outlet, power strip, etc. Keep your TV unplugged for about 5 minutes. Then plug the TV back in, turn on the TV, and see if the problem is fixed. If the problem remains, then please visit www.rca.com/television for updated FAQs or contact RCA Customer Support at the support number provided in your Warranty under *How To Get Service*.

V-Chip Rating Explanations

US V-Chip Rating System

TV-MA (Mature Audience Only) Specifically designed to be viewed by adults and may be unsuitable for children under 17. It contains one or more of the following content themes: crude indecent language (L), explicit sexual activity (S), or graphic violence (V).

TV-14 (Parents Strongly Cautioned) Contains some material that many parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).

TV-PG (Parental Guidance Suggested) Contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The program contains one or more of the following content themes: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

TV-G (General Audience) Most parents would find this program suitable for all ages. It contains little or no sexual dialogue (D) or situations (S), no strong language (L), and little or no violence (V).

TV-Y7 (Directed to Children 7 years and older) Designed for children ages 7 and above. It may be more appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild fantasy violence (FV) or comedic violence, or may frighten children under the age of 7.

TV-Y (All Children) Themes and elements in this program are designed for a young audience, including children from ages 2-6. It is not expected to frighten younger children.

Canadian English V-Chip Rating System

18+ (Adults) Programming intended for adults 18 and older. It may contain elements of violence, language, and sexual content which could make it unsuitable for viewers under 18. Violence Guidelines: May contain violence integral to the development of the plot, character or theme, intended for adult audiences. Other Content Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.

14+ (Viewers 14 and over) Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence. Could deal with mature themes and societal issues in a realistic fashion. Other Content Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.

PG (Parental Guidance) Programming intended for a general audience but which may not be suitable for younger children (under the age of 8). Parents may consider some content inappropriate for unsupervised viewing by children aged 8-13. Violence Guidelines: Depictions of conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or mildly suggestive language. Could also contain brief scenes of nudity.

G (General Audience) Programming considered acceptable for all ages groups. While not designed specifically for children, it is understood younger viewers may be part of the audience. Violence Guidelines: Will contain very little violence, either physical or verbal or emotional. Will be sensitive to themes which could frighten a younger child, will not depict realistic scenes of violence which minimize or gloss over the effects of violent acts. Other Content Guidelines: There may be some inoffensive slang, no profanity and no nudity.

C8+ (Children 8 and Older) Programming generally considered acceptable for children 8 years and over to watch on their own. Violence Guidelines: Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict or encourage children to imitate dangerous acts which they may see on television. Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. Other Content Guidelines: There will be no profanity, nudity or sexual content.

C (Children) Programming intended for children under age 8. Violence Guidelines: Careful attention is paid to themes which could threaten children's sense of security and well being. There will be no realistic scenes of violence. Depictions of aggressive behaviour will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other Content Guidelines: There will be no offensive language, nudity or sexual content.

Canadian French V-Chip Rating System

18 ans+ (Adults) Programming is for adults only. This program contains sustained violence or extremely violent scenes.

16 ans+ (Viewers 16 and over) Programming is not suitable for those under age 16. This program contains frequent scenes of violence or intensely violent scenes.

13 ans+ (Viewers 13 and over) Programming may not be suitable for children under the age of 13. This program either contains several violent scenes or one or more scenes that are violent enough to affect them. Viewing in the company of an adult is therefore strongly recommended for children under the age of 13.

8 ans+ (Viewers 8 and over) Not recommended for young children. This program is suitable for most audiences, but it contains mild or occasional violence that could upset young children. Viewing in the company of an adult is therefore recommended for young children (under the age of 8) who do not distinguish between reality and imagination.

G (General Audience) This program is suitable for audiences of all ages. It contains no violence, or any violence that it does contain is either minimal or is presented in a humorous manner, as a caricature, or in an unrealistic way.

Limited Warranty

What your warranty covers:

- Defects in materials or workmanship.

For how long after your purchase:

- 90 days from date of purchase for labor.
- 1 year from date of purchase for parts.

What your warranty *does not* cover:

- Acts of nature, such as but not limited to lightning damage.
- Adjustment of customer controls.
- Damage from misuse or neglect.
- A unit that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- Batteries.
- Units purchased or serviced outside the U.S.A.
- Shipping damage if the unit was not packed and shipped in the manner prescribed by TTE Technology, Inc..
- Customer Instruction. (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your dealer.)

How you get service:

- Contact the RCA Customer Care Center at 1-800-951-9582.
- Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

Product Registration:

- Please complete and mail the Product Registration Card packed with your TV or register on-line at www.rca.com/television. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

Limitation of Warranty:

- **THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED. NO VERBAL OR WRITTEN INFORMATION GIVEN BY TTE TECHNOLOGY, INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY.**
- **REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. TTE TECHNOLOGY, INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. THIS DISCLAIMER OF WARRANTIES AND LIMITED WARRANTY ARE GOVERNED BY THE LAWS OF THE STATE OF INDIANA. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.**

How state law relates to warranty:

- Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

If you purchased your product outside the United States:

- This warranty does not apply. See your dealer for warranty information.

Service calls which do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.

Care and Cleaning

CAUTION: Turn OFF your TV before cleaning.

You can clean the TV as required, using a soft lint-free cloth. Be sure to occasionally dust the ventilation slots in the cabinet to help assure adequate ventilation.

IMPORTANT: Never use strong cleaning agents, such as ammonia-based cleaners, or abrasive powder. These types of cleaners will damage the TV.

The TV's screen may be cleaned with a soft, lint-free cloth as well. Take care not to scratch or mar the screen. If necessary, you may use a cloth dampened with warm water. While cleaning do not spray liquid directly on the screen, or allow liquid to run down the screen and inside the TV. Also, never place drinks or vases with water on top of the TV. This could increase the risk of fire or shock hazard or damage to the TV.



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FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

Visit the RCA website at www.rca.com/television

Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

TTE

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